# 10/580279

## IAP12 Rec'd PCT/PTO 24 MAY 2006

U.S. PATENT AND TRADEMARK OFFICE; U.S. DEPARTMENT OF COMMERCE

EXPRESS MAIL LABEL NO.: EV 781 732 682 US

May 24, 2006

TRANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CONCERNING A SUBMISSION UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER: 4364.P0018US

U.S. APPLICATION NO. (If known, see 37 CFR 1.5): Unknown

CONFIRMATION NO.: Unknown

INTERNATIONAL APPLICATION NO.: PCT/JP2003/015091

INTERNATIONAL FILING DATE: November 26, 2003

PRIORITY DATE CLAIMED: November 26, 2003

TITLE OF INVENTION: METHOD FOR SEPARATION OF GLYCOSAMINOGLYCAN FROM CORE

PROTEIN OF PROTEOGLYCAN WITH THE USE OF XYLANASE

APPLICANTS FOR DO/EO/US: (1) Keiichi TAKAGAKI, (2) Satoshi KANEKO and (3) Atsushi KUNO

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

- 1. [X] This is a FIRST submission of items concerning a submission under 35 U.S.C. 371.
- 2. [] This is a **SECOND** or **SUBSEQUENT** submission of items concerning a submission under 35 U.S.C. 371.
- 3. [] This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
- 4. [X] The US has been elected (Article 31).
- 5. [X] A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. [] is attached hereto (required only if not communicated by the International Bureau).
  - b. [X] has been communicated by the International Bureau.
  - c. [] is not required, as the application was filed in the United States Receiving Office (RO/US).
- 6. [X] An English language translation of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. [X] is attached hereto.
  - b. [] has been previously submitted under 35 U.S.C. 154(d)(4).
- 7: [] Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
  - a. [] are attached hereto (required only if not communicated by the International Bureau).
  - b. [] have been communicated by the International Bureau.
  - c. [] have not been made; however, the time limit for making such amendments has NOT expired.
  - d. [] have not been made and will not be made.
- 8. [] An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
- 9. [] An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
- 10. [] An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

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### Items 11 to 20 below concern document(s) or information included:

- 11. [] An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
- 12. [] An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
- 13. [] A preliminary amendment.
- 14. [] An Application Data Sheet under 37 CFR 1.76.
- 15. [] A substitute specification.
- 16. [] A power of attorney and/or change of address letter.
- 17. [] A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 37 CFR 1.821-1.825.
- 18. [] A second copy of the published international application under 35 U.S.C. 154(d)(4).
- 19. [] A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
- 20. [X] Other items or information:
  - Formal Drawings (3 sheets)
  - Title Page of WIPO Document WO 2005/052176 A1
  - Form PCT/ISA/210 International Search Report
    - Form PCT/IB/301 Notification of Receipt of Record Copy
    - Form PCT/IB/308 Notice Informing Applicant of Comm. of Int'l Appln. to Designated Offices Postal Card

| The following fees have been submitted:   | Calculations | PTO USE ONLY |
|---|--------------|--------------|
| 21. [X] Basic National Fee (37 CFR 1.492(a))\$300.00  | \$300.00     |              |
| 22. [X] Examination Fee (37 CFR 1.492(c))  If the written opinion prepared by ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0.00  All other situations\$200.00   | \$200.00     |              |
| 23. [X] Search Fee (37 CFR 1.492(b))  If the written opinion of the ISA/US or the international preliminary examination report prepared by IPEA/US indicates all claims satisfy provisions of PCT Article 33(1)-(4)\$0.00  Search fee (37 CFR 1.445(a)(2) has been paid on the international application to the USPTO as an International Searching Authority | \$400.00     |              |
| TOTAL OF 21, 22 AND 23 =  | \$900.00     |              |

U.S. APPLICATION NO. (if known, see 37 CFR 1.5): Unknown & 500 279 INTERNATIONAL APPLICATION NO.: PCT/JP2003/015091

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|  |                 |  |            |                        | <del></del> |
|--|-----------------|--|------------|------------------------|-------------|
| [ ] Additional fee for specification and drawings filed in paper over 100 sheets (excluding sequence listing in compliance with 37 |                 |  |            |                        |             |
| over 100 sheet   | s (excluding so | equence listing in complian                                | ce with 37 |                        |             |
| CFR 1.821(c)   | or (e) or comp  | uter program listing in an e                               | lectronic  |                        |             |
| medium) (37 CFR 1.492(j)). The fee is \$250 for each additional  |                 |  |            |                        |             |
| 50 sheets of pa  | <del></del>     |  | I D A TEC  |                        |             |
| Total sheets   | Extra sheets    | Number of each additional 50 or fraction thereof (round up | RATE       |                        |             |
|  |                 | to a whole number)   |            |                        |             |
| - 100 =  | /50 =           |  | x \$250    | \$                     |             |
| Surcharge of \$  | 130.00 for fur  | nishing any of the search fe                               | e,         |                        |             |
|  |                 | or declaration after the date                              |            |                        |             |
| commencement of the national stage (37 CFR 1.492(h)).  |                 |  | \$         |                        |             |
| CLAIMS 1   | NUMBER FIL      | ED NUMBER EXTRA  | RATE       |                        |             |
| Total claims   | 2 - 20          | = 0  | x \$ 50.00 | \$                     |             |
| Ind. claims  | 1 - 3           | = 0  | x \$200.00 | \$                     |             |
| MULTIPLE DEPENDENT CLAIM(S) (if applicable) + \$360.00   |                 |  |            | \$                     |             |
| • TOTAL OF ABOVE CALCULATIONS =  |                 |  |            | \$900.00               |             |
| [] Applicant claims small entity status. See 37 CFR 1.27. Fees   |                 |  |            |                        |             |
| above are reduced by 1/2. SUBTOTAL =   |                 |  |            | \$                     |             |
| Processing fee of \$130.00 for furnishing the English translation  |                 |  |            |                        |             |
| later than 30 months from the earliest claimed priority date (37   |                 |  |            |                        | ~           |
| CFR 1.492(i)). +   |                 |  | \$         |                        |             |
| TOTAL NATIONAL FEE =   |                 |  |            | \$900.00               |             |
| Fee for recording the enclosed assignment (37 CFR 1.21(h)). The  |                 |  |            |                        |             |
| assignment must be accompanied by an appropriate cover sheet   |                 |  |            |                        |             |
| (37 CFR 3.28, 3.31). \$40.00 per property +  |                 |  | \$         |                        |             |
| TOTAL FEES ENCLOSED =  |                 |  | \$900.00   |                        |             |
|  |                 |  |            | Amount to be refunded: | \$          |
| ••   |                 |  |            | Amount to be charged:  | \$          |

| a. | X] A check in the amount of \$900.00 to co | over the above fees is enclosed. |             |
|----|--|----------------------------------|-------------|
| b. | Please charge my Deposit Account No.       | in the amount of \$              | to cover th |

above fees. A duplicate copy of this sheet is enclosed.

c. [X] The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 06-1382. A duplicate copy of this sheet is enclosed. NOTE: Where an appropriate time limit under 37 CFR 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the International Application to pending status.

#### IN DUPLICATE

PLEASE DIRECT CORRESPONDENCE TO THE ADDRESS ASSOCIATED WITH THE FOLLOWING CUSTOMER NUMBER: 23474

300.07/05

Terryence F. Chapman

Registration Number: 32 549

TFC/smd

FLYNN, THIEL, BOUTELL & TANIS, P.C.

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Kalamazoo, Michigan 49008-1631

#### PATENT APPLICATION

Express Mail Label No.: EV 781 732 682 US 10/580279

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Date of Mailing: May 24, 2006

Applicants: Keiichi TAKAGAKI et al

Title: METHOD FOR SEPARATION OF GLYCOSAMINOGLYCAN FROM

CORE PROTEIN OF PROTEOGLYCAN WITH THE USE OF XYLANASE

PCT International Application No.: PCT/JP2003/015091

PCT International Filing Date: November 26, 2003

U.S. Application No.

(if known, see 37 CFR 1.5): Unknown

Atty. Docket No.: 4364.P0018US

Mail Stop PCT Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

#### EXPRESS MAILING CERTIFICATE

Sir:

I hereby certify that the attached paper or fee is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and is addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

FLYNN, THIEL, BOUTELL & TANIS, P.C.

Bv:

Date: May 24, 2006

Documents attached:

Nationalized PCT Application Transmittal dated May 24, 2006

including enclosures listed thereon

Telephone: (269) 381-1156

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